

## **REMARKS**

In accordance with the foregoing, claims 1-5, 7, and 8 are amended. No new matter is being presented, and approval and entry are respectfully requested.

Claims 1-8 are pending and under consideration. Reconsideration is respectfully requested.

### **OBJECTIONS TO THE DRAWINGS:**

In the Office Action, at page 2, numbered paragraph(s) 1, the drawings were objected to, the Examiner indicating that the figures should be labeled as "Prior Art." Replacement FIGS. 6 and 7 are submitted herewith in accordance with the Examiner's suggestion. Therefore, withdrawal of the outstanding objections to the drawings is respectfully requested.

### **REJECTION UNDER 35 U.S.C. §103:**

I. In item 3 on pages 3-5 of the Office Action, claims 1-3 and 5-7 are rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over the Applicant Admitted Prior Art (AAPA) in view of U.S. Patent No. 5,506,863 to Meidan et al. (hereinafter "Meidan").

The Office Action alleges that FIGS. 6 and 7 of the AAPA discloses "generates a radio modulation signal by multiplying an intermediate frequency band modulation signal from an intermediate frequency band modem by a local oscillation signal, and transmits the radio modulation signal" (see page 3, lines 9-14 of the Office Action). The Office Action submits that AAPA fails to teach that "each of the plurality of wireless communication terminals receives the reference local signal from the transmitting station, amplifies and band filtering the signal, regenerates the reference local oscillation signal by an injection synchronous oscillator or an amplifier, and using the signal as a local oscillation signal for use by a transmitting function and a receiving function" (see lines 15-20 on page 3 of the Office Action), but relies on Meidan to provide the missing features.

Meidan discloses a communication unit using a hopping mechanism. The hopping mechanism uses a predetermined hopping pattern detected (received) from the communication system or a global positioning satellite (see Meidan's Abstract, col. 10 lines 10-25, and col. 6, lines 61-63). However, contrary to the assertions in the Office Action, in the portions indicated in the Office Action or in the whole disclosure, Meidan does not teach or suggest "generates a

**IN THE DRAWINGS:**

In the Office Action at item 1, the Examiner objected to the drawings. In order to overcome these objections, replacement figures are submitted herewith. FIGS. 6 and 7 are labeled as "PRIOR ART." Approval of these changes to the Drawings is respectfully requested.

radio modulation signal by multiplying an intermediate frequency band modulation signal from an intermediate frequency band modem by a local oscillation signal” as recited in claim 1.

Therefore, claim 1 and claims 2 and 3 depending from claim 1 patentably distinguish over AAPA and Meidan at least because the prior art does not anticipate or render obvious “modulating a transmission signal in the frequency hopping system using the intermediate frequency band modem, and demodulating a received signal by each wireless communication terminal of the plurality of wireless communication terminals” as recited in claim 1 (as amended).

In view of the above arguments, independent claim 5 and claims 6 and 7 depending from claim 5, patentably distinguish over AAPA and Meidan at least because the prior art does not anticipate or render obvious “each wireless communication terminal of the plurality of wireless communication terminals receives the reference local oscillation signal from the transmitting station, amplifies and band filters the signal, regenerates the reference local oscillation signal by an injection synchronous oscillator or an amplifier, and performs mutual communications using the regenerated signal as a local oscillation signal for use by a transmitting function and a receiving function.”

II. In item 4 on pages 5-7 of the Office Action, claims 4 and 8 are rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over AAPA in view of Meidan and further in view of “Proposal of Millimeter-wave Self-heterodyne Communication System”, Communications Research Laboratory, Ministry of Posts and Telecommunications, June 2000 to Yozo Shoji et al. (hereinafter “Shoji”).

Relative to independent claim 4 (and 8), the Office action relies on Meidan to disclose “a transmitter that amplifies (108) an output signal of a hopping synthesizer used as a local oscillation signal in addition to a frequency hopping radio modulation signal of a single-side band wave or a both-side band wave by an amplifier without a band pass filter (108)” (see lines 18-21 on page 6 of the Office Action). However, Meidan in FIGS. 1 and 2 and their corresponding descriptions do not disclose or render obvious a transmitter that transmits a local oscillation in addition to a frequency hopping radio modulation signal. A modulator 106 is illustrated in FIGS. 1 and 2 of Meidan as being located before the amplifier 108, but no filtering is taught or suggested. Meidan shows only a conventional frequency hopping transmitter and thus does not anticipate or render obvious the features recited in claims 4 and 8.

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If there are any underpayments or overpayments of fees associated with the filing of this Amendment, please charge and/or credit the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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